

A Presentation of the Colorado Health Institute 1576 Sherman Street, Suite 300 Denver, Colorado 80203-1713 Region VIII Health IT Roundtable May 11, 2007

# CORHIO

Colorado's Strategy to Achieve Statewide Interoperability



## Colorado's context

- Colorado culture
  - Preference for the market over government solutions
  - Diverse geography with changing demographics
  - A decade of severe state budget constraints
  - Majority small employers
- Health and health care
  - Highly competitive health care systems
  - Rising uninsured (17%)
  - Worrisome health statistics
- HIT and interoperability
  - Politics and finances breed resourcefulness
  - Federated approach required
- Emerging opportunities
  - Early HIE leadership
  - National initiatives
  - Focus on state level HIE
  - Colorado policy environment (executive branch, legislature, agencies)
  - Colorado stakeholder engagement



# HIE chronology

#### **Early HIE efforts**

- Provider HIT investments
- Local grant and contract– funded HIE projects (local RHIOs)

#### 2004-5

- Stakeholders endorse vision for statewide HIE
- CORHIO Steering Committee deliberates and calls for statewide RHIO

#### 2007

- National context evolves (quality, transparency, privacy and security)
- State-level HIE grows (states, models)
- CORHIO incorporated 3/07 (Implementation launches: Board, privacy/security, business plan)

2004

- Federal agenda launched
- RHIO emerges as a construct
- · AHRQ SRD contract awarded (COHIE)

•CO participates in national HIE efforts (AHIC, HISPC, CCHIT, SLHIE) and state level initiatives (e.g. DOQ-IT, IPIP)

2006

- ·CORHIO market analysis
- Stakeholders endorse establishing CORHIO as 501(c)(3)
- Governance model developed, Board of Directors solicited



## Colorado's HIE vision

#### Standardize

- Avoid investments that perpetuate limited health care information exchange
- Establish technical standards (both content and message) based on open architecture.

#### Community of trust

- Focus on the needs of all Coloradans
- Balance propriety interests
- Support secure HIE to support care of individuals and communities

#### Shared investments

- Build a common, central, web-based service that costs less than individual organization technology solutions
- Maximize return on investments (optimize shared use of technical components)

## Non-profit service organization

- Reduce additional health care system costs through a cost-based model
- Structure variable participant fees to create cross-subsidies and ensure inclusiveness

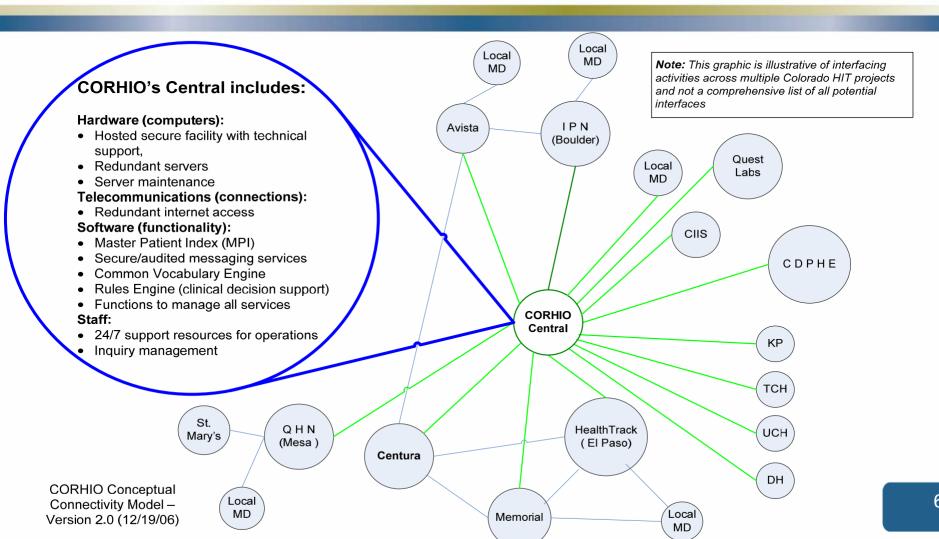


# Approach to interoperability

- Leverage point of care clinical data exchange (AHRQ contract) to build collaborative governance and statewide HIE infrastructure
- Add additional services of value to constituents based on established collaborative governance and infrastructure
- Optimize CORHIO implementation and level of participation by building upon community and provider affiliations, capacities and approach
- Imbed privacy architecture consistent with the Connecting for Health policy and technical models
- Position Colorado for interstate and nationwide HIE deployment



## **CORHIO** architecture





## Aiming for diverse HIE services

#### Point of care clinical data exchange (for patient and/or provider)

- Aggregation of a pt's clinical health record with information from variety of provider sources (e.g. provider visits, pt. medication lists, allergies, laboratory, radiology, procedures, EKG)
- Decision support to apply clinical guidelines

## Clinical messaging (from provider to provider)

- Laboratory test orders/results exchange (e.g. to/from CDPHE)
- ePrescribing
- Case reporting, electronic laboratory reporting
- Ancillary/referral service results (e.g., radiology, consultant reports)

## Population/public health (for provider, payer and/or public health)

- Analysis of quality, disparities, morbidity monitoring, pay for performance
- Registry development and support
- Bio-surveillance
- Community health assessments

## Administrative (for provider and payer)

- Claims submission
- Eligibility, credentialing



# **CORHIO** implementation strategies

## CORHIO organization and operations

Governance

(Set policies/conditions for participation, monitor adherence)

Business arrangements

(Establish agreements/practices by CORHIO central and between CORHIO and participating entities)

Technical

(Promote design/implementation within CORHIO central and participating entities)

Guidance/education

(Provide training program/materials to promote implementation among participants)

#### Culture and HIE environment

- Public awareness and education
- Accountability and transparency

(Promote community of trust through open and inclusive processes)

Public policy

(Inform policy makers toward adequate HIE statutory/regulatory framework)

Collaborative governance and participation

(Maintain participation across sectors via public-private model)



# Implementation goals and challenges

#### Goals

- 1. Establish core CORHIO operations
- 2. Build point of care clinical data exchange prototype on schedule (AHRQ contract terms)
- 3. Expand to support all CORHIO services

### Challenges

- Soliciting a range of public and private investments (time,participation, \$\$)
- Developing a financing plan
- Technology and policy implementation
- Achieving critical mass
  - Getting everyone in under the tent (public/private support and participation)



# Implementation timeline 2007

## April – December

- 1. Organization & strategic planning
  - Business plan (other services, resources)
    - » Privacy and security policy/technical implications
  - Committees/participation
- 2. Prepare for point of care go-live
  - 1st phase policy development (e.g. authentication, opt-out, security, etc)
  - MPI implementation
- 3. Production lab data exchange
  - Go live with project partners UCH, DHHA, TCH, KP (Oct 1)
  - Expand participants
    - » Consensus for policies, practices
- 4. Public education/awareness strategies
  - Communication materials
  - Outreach
- 5. Public policy development
  - Support/participation in Health IT Advisory Committee
  - Statutory/regulatory analysis
  - Other research and dialogue
    - » State eHealth Alliance, HISPC part II, State HIE Consensus Project

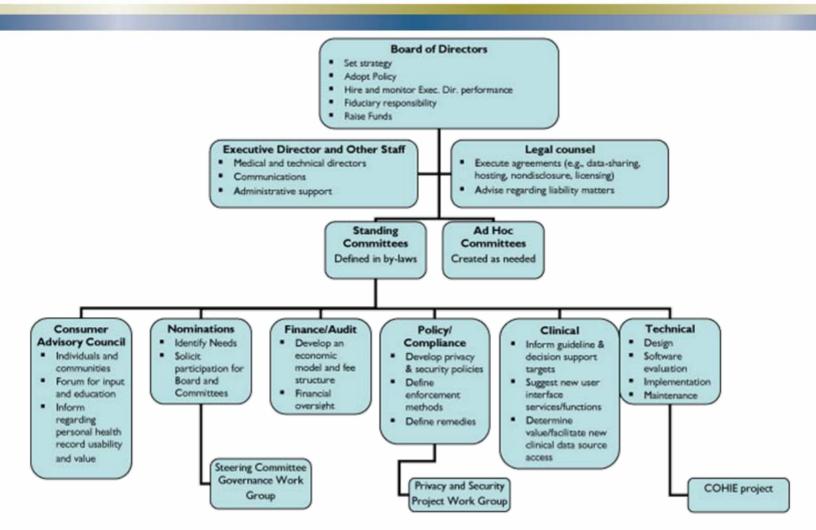


# Progress and key initiatives

#### CORHIO

- It's official incorporated 3/27/07
- Board
- » Donna Lynne, Kaiser Permanente, chair
- » Agency/executive branch participation (HCPF, CDPHE, State CIO)
- » Public private leaders







# Technical implementation: AHRQ contract terms

Ву	Year	Topic
Oct 05	1	COMPLETED - Patient matching prototype
Oct 06	2	COMPLETED - Connectivity with "test" data (Lab tests related to diabetes)
Oct 07	3	IN PROGRESS: Production data exchange (Lab)
Oct 08	4	Additional data types (EKG, radiology, encounters) Additional partners (CORHIO patrons)
Oct 09	5	Decision Support (CCGC-based guidelines) Population-based analysis (Pay for performance) Personal health record access



# Implementation 2008

#### Jan - June

- 1. Legislative debate re HIE
  - Statutory/regulatory changes
  - Promoting adoption
  - Public programs
- 2. HIE service development
  - EKG data exchange
  - Other services
  - Related CORHIO policy formulation
- Continued R&D
  - Public health exchange
  - Use of data
  - Demonstration pilots e.g. Medicaid?
- 4. Leadership and technical assistance to promote HIT/HIE capacity
  - Provider/community adoption
  - Expand CORHIO participants

#### June - December

- EKG go live data exchange
- Other HIE



# Achieving the promise of health IT & interoperability

- An array of challenges at various levels
  - Technology implementation
  - Resources
  - Levels of adoption
    - » Digital record systems among providers (especially primary care)
    - » The ability to share data (expanding CORHIO participation and demonstrating interoperability)
- Emerging issues
  - The value proposition for new infrastructure
    - » HIE as "infomediary" and implications for financing
  - Achieving new levels of collaboration
    - » Engagement by health plans, business, statewide
    - » Institutionalizing the state level HIE organization as a publicprivate model
  - Changing the way business is done
    - » Enabling access to and use of data



# Key issues and projects

- Medicaid, CHP+ and HIT
  - AHRQ contract evaluation: benefits/conditions for agency participation in CORHIO
  - Medicaid Transformation Grant application: program/demonstrations to create incentives for providers, achieve cost/quality benefits
- Privacy and security
  - Colorado implementation plan (June December 07)
- Public health
  - Streamlining public health reporting, registries, etc
  - Benefits/conditions for agency participation in CORHIO
- Provider level implementation
  - Safety net
  - Primary care
- Multi-state collaboration
  - Utah, NM, WY, NE discussions
- Federal state collaboration
  - State level HIE Consensus Project Steering Committee



## Leadership and growing momentum

## Policy makers

Governor

(Colorado Promise)

SB 196: Health IT Advisory Committee

(Strategic plan, calls for statutory/regulatory study and recommendations for revision, creates mechanism to generate legislative action)

• SB 74

(Information for policy makers via Legislative interim committee hearings (Health Care Task Force), prioritizes HIE for ER/EKG)

#### National level

- Privacy and Security Project (Next phase through 2007)
- State-level HIE Consensus Project

(Credentialling criteria, identify "...critical path to data transformation and financial sustainability.")